



REPRESENTATIVE IMAGE

**Product:** [8102](#)

RS232/422 Low Cap, #24-2pr, FPE, O/A Foil+Braid, PVC Jkt, CM, 100Ω

## Product Description

Computer EIA RS-232/422 Cable, 24 AWG stranded (7x32) tinned copper conductors, Datalene® insulation, twisted pairs, overall Beldfoil® (100% coverage) + tinned copper braid shield (65% coverage), 24 AWG stranded tinned copper drain wire, PVC jacket

## Technical Specifications

### Product Overview

|                        |  |
|------------------------|--|
| Suitable Applications: | rs-232 extended distance applications; rs-422 applications; computer communications; low voltage analog signals (4-20ma, 0-10v, ...); low voltage digital control (24v, ...); line level audio; panel wiring |
|------------------------|--|

### Construction Details

#### Conductor

| Element | Number of Element | AWG | Stranding | Material           |
|---------|-------------------|-----|-----------|--------------------|
| Pair(s) | 2                 | 24  | 7x32      | TC - Tinned Copper |

#### Insulation

| Element | Material                 | Thickness [in.] | Color Code   |
|---------|--------------------------|-----------------|--|
| Pair(s) | PE - Polyethylene (Foam) | 0.0125          | White/Blue Stripe & Blue/White Stripe, White/Orange Stripe & Orange/White Stripe |

#### Outer Shield Material

| Shield Type  | Material                         | Coverage   | Drainwire Type   |
|--------------|----------------------------------|------------|------------------|
| Tape + Braid | Alum / Poly + Tinned Copper (TC) | 100% + 65% | 24 AWG (7x32) TC |

#### Outer Jacket Material

| Material                 | Thickness | Nom. Diameter |
|--------------------------|-----------|---------------|
| PVC - Polyvinyl Chloride | 0.035 in  | 0.270 in      |

Cable Diameter (Nominal): 0.270 in

### Electrical Characteristics

#### Electricals

| Element | Nom. Conductor DCR | Nom. Capacitance Cond-to-Cond | Nom. Capacitance Cond-to-Other (Conds + Shield) | Characteristic Impedance | Nom. Velocity of Prop. | Max. Current                   |
|---------|--------------------|-------------------------------|---|--------------------------|------------------------|--------------------------------|
| Pair(s) | 24 Ohm/1000ft      | 12.5 pF/ft                    | 22 pF/ft  | 100 Ohm                  | 78%                    | 1.8 Amps per Conductor at 25°C |

Nom Outer Shield DCR: 4.6 Ohm/1000ft

#### Voltage

| UL Voltage Rating              |
|--------------------------------|
| 300 V (CM), 30 V (UL AWM 2919) |

### Mechanical Characteristics

#### Temperature

| UL Rating          | Operating      |
|--------------------|----------------|
| 80°C (UL AWM 2919) | -30°C to +80°C |

## Bend Radius

| Stationary Min. | Installation Min. |
|-----------------|-------------------|
| 2.75 in         | 2.7 in            |

|                    |               |
|--------------------|---------------|
| Max. Pull Tension: | 36 lbs        |
| Bulk Cable Weight: | 34 lbs/1000ft |

## Standards and Compliance

|                                 |   |
|---------------------------------|---|
| Environmental Suitability:      | Indoor  |
| Flammability / Fire Resistance: | UL1685 UL Loading, IEC 60332-1-2  |
| NEC / UL Compliance:            | Article 800, CM   |
| AWM Compliance:                 | 2919  |
| CEC / C(UL) Compliance:         | CM  |
| CPR Euroclass:                  | Eca   |
| European Directive Compliance:  | EU CE Mark, EU Directive 2011/65/EU (ROHS II), EU Directive 2012/19/EU (WEEE) |
| APAC Compliance:                | China RoHS II (GB/T 26572-2011)   |
| Plenum Number:                  | 88102   |

## Product Notes

|        |  |
|--------|--|
| Notes: | Datalene® insulation features include low dielectric constant and a dissipation factor for high-speed, low-distortion data handling. Physical properties include good crush resistance and light weight. |
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## History

|                      |  |
|----------------------|--|
| Update and Revision: | Revision Number: 0.308 Revision Date: 07-28-2020 |
|----------------------|--|

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